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Hello World

IN SPRING BOOT

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Contents

Getting Started

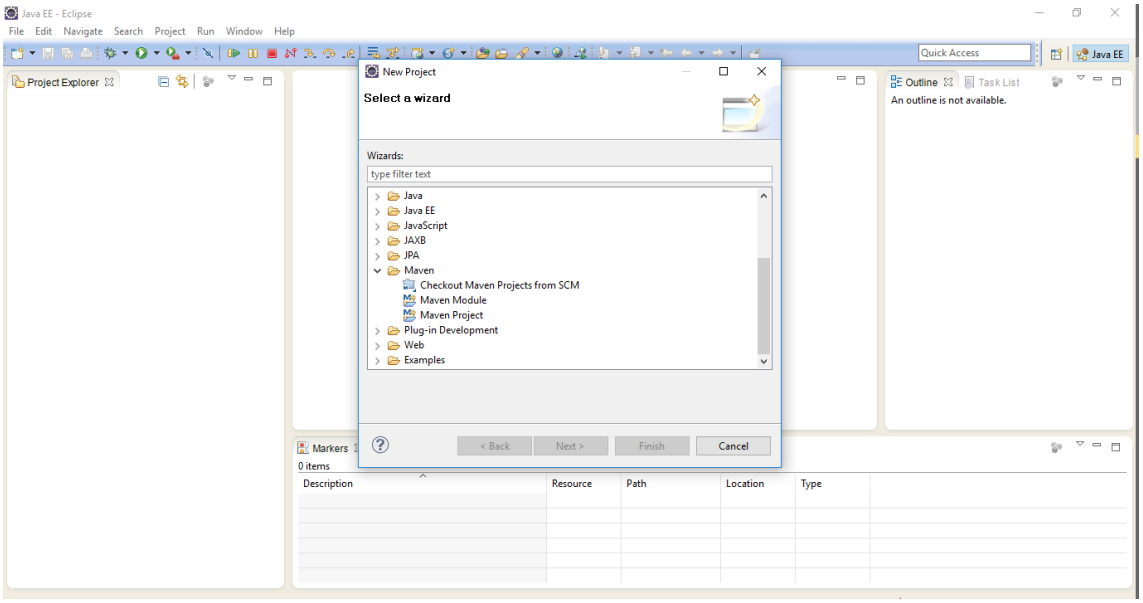
There are a few ways of building a simple app with Spring Boot

1. There are plugins/shortcuts to start a spring boot project in eclipse that will auto add some dependencies they are spring initializer –https://start.spring.io
2. STS /STS eclipse plugin
3. Manually (Which we'll be covering)

Creating a new project

IN eclipse File>New>Maven Project

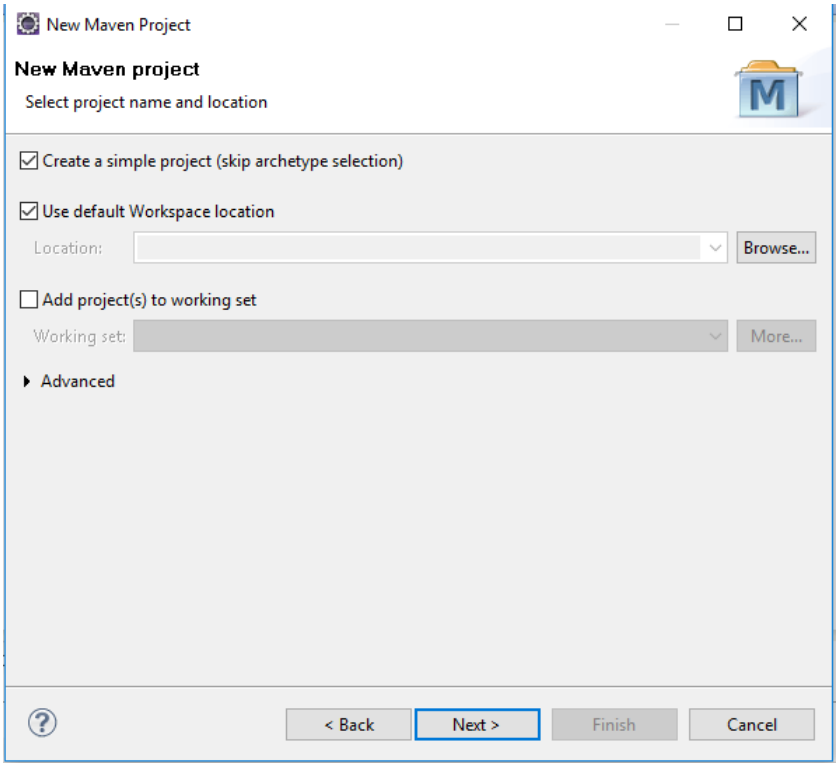
4. Select the following options:



- Create a simple project (skip archetype selection)
- Use default Workspace location

5. Leave the following options unselected

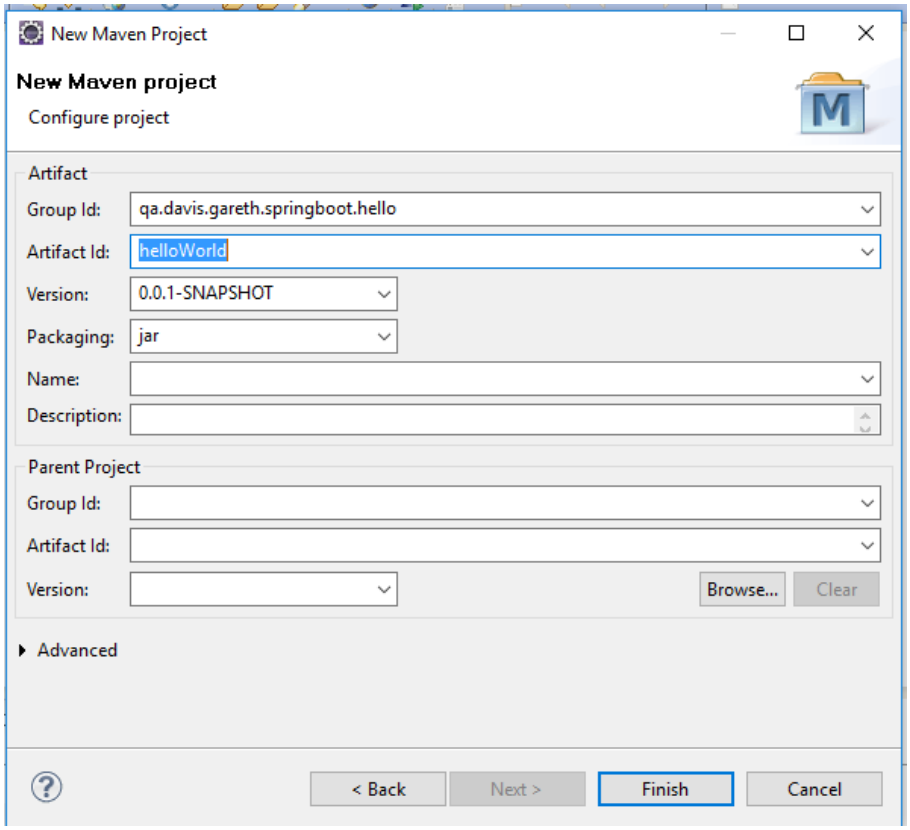
- Add project(s) to working set



6 Select next

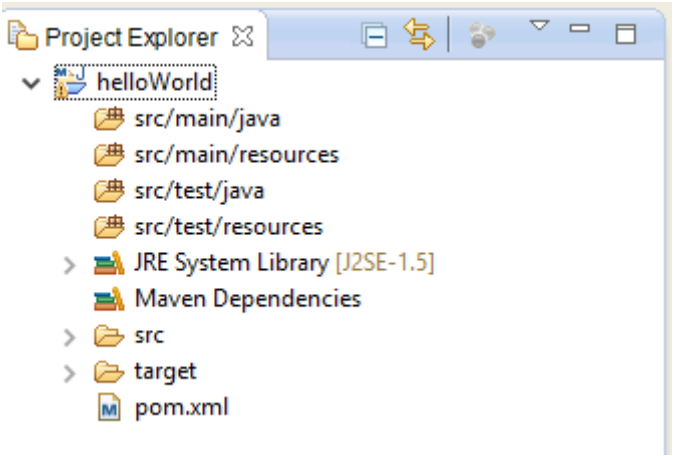
7 Enter your group ID and Artifact ID (and version if you want to)

(Group ID is how you uniquely name this project across all projects. Normally this will start with your company domain in reverse going down to your team and project Artifact id is the name of the project (or Jar) without versions)

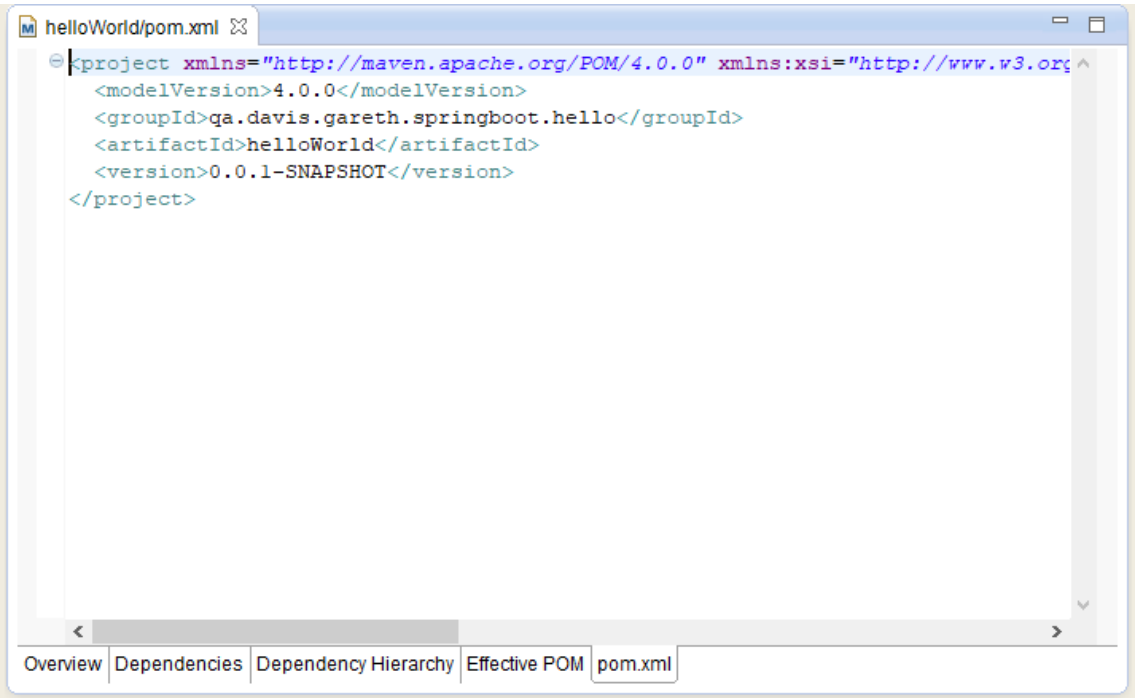


8 As you should be aware from the maven course this is just how you create a barebones maven project without any dependencies.

9 Your project tree structure should look like the following;



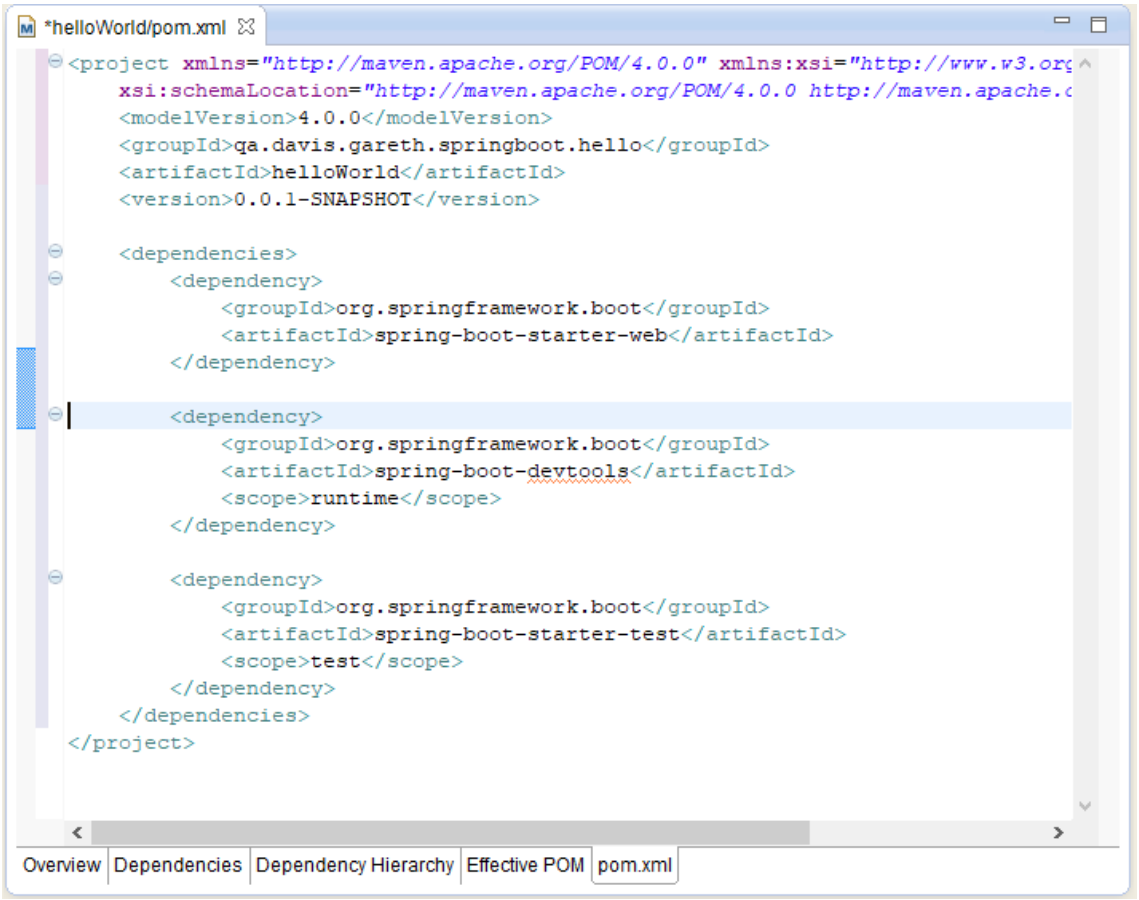
10 If you open the POM it should look like the following;



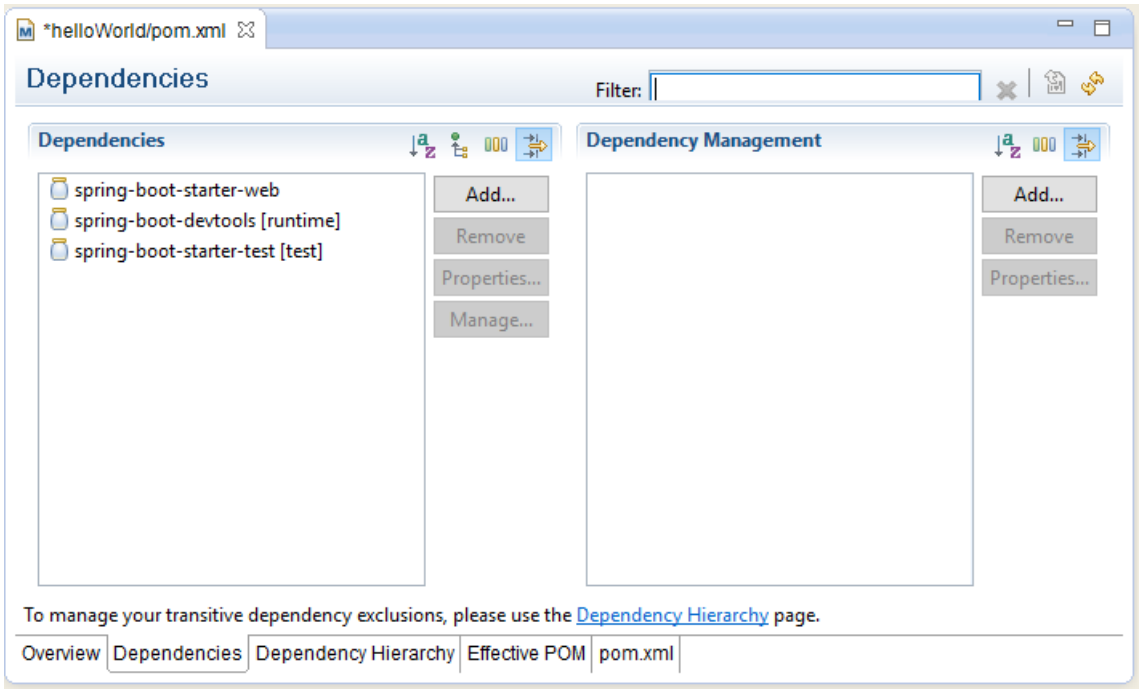
11 We need to add three dependencies into the pom.xml

- Starter Web, Starter Test and dev Tool
- Starter web allows us to build Spring Boot web applications or REST services
- Spring boot devtools allows us to quickly set up and run services and includes functionality like live reload and global settings
- Starter test bring unit testing into the project using Spring Test, Mockito and Junit
- Add the dependencies using either the dependencies tab or by directly editing the POM.xml file

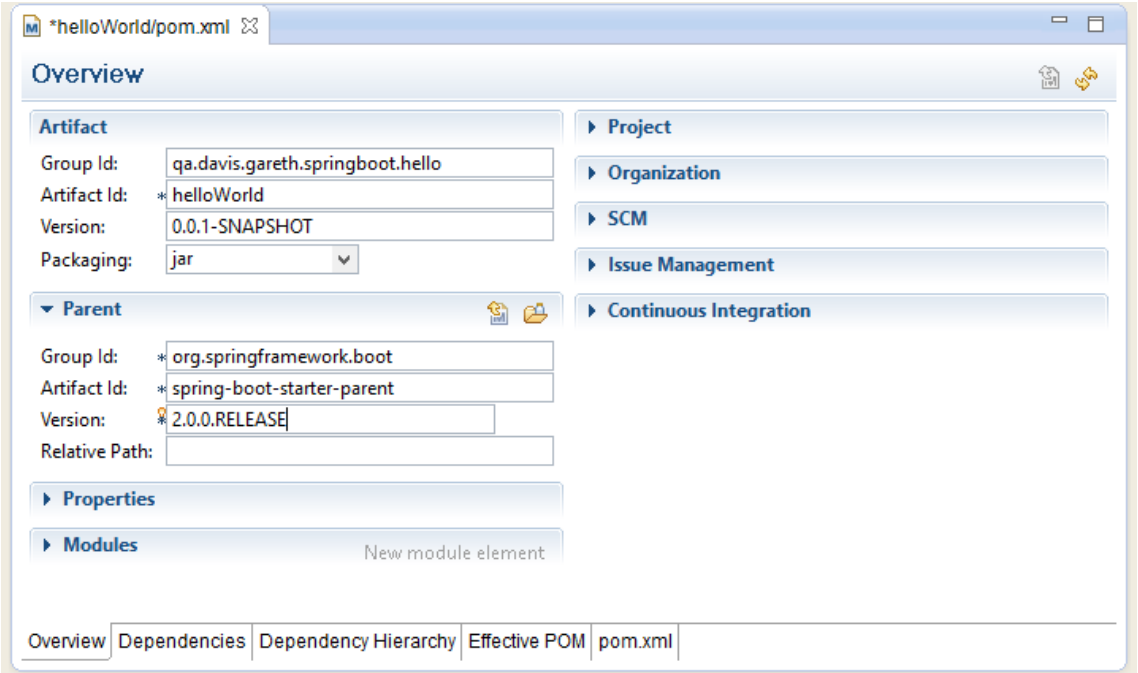
12 Until your POM.xml looks like this



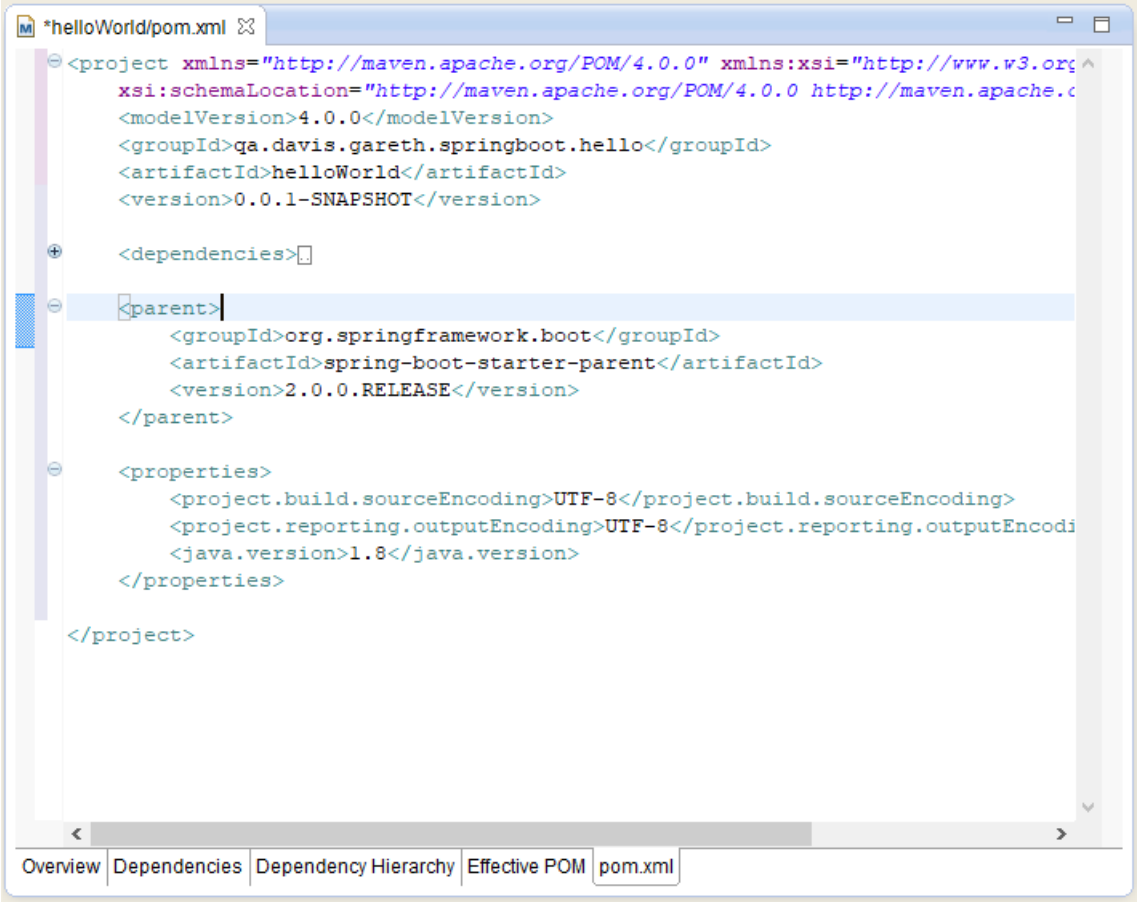
13 And your dependencies page looks like this



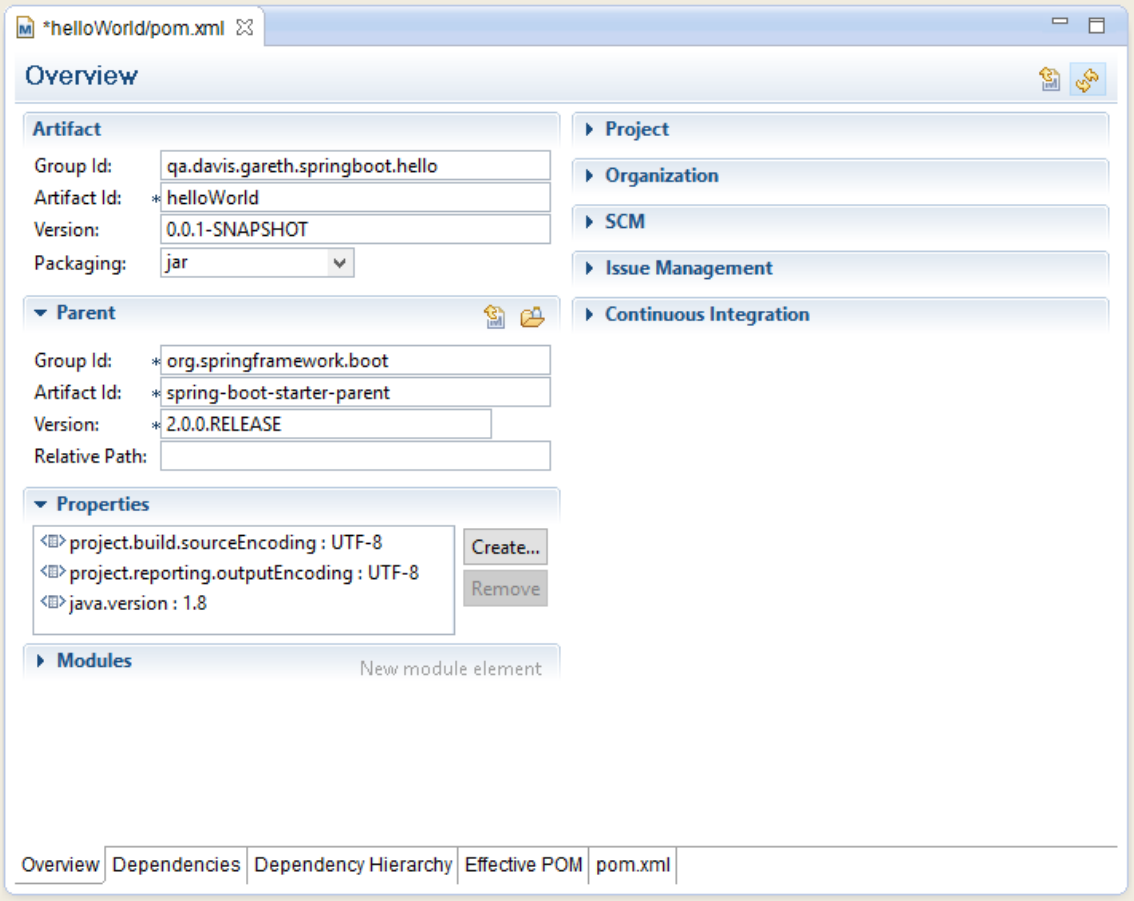
14 We haven't added the version numbers for the dependencies so that they can be auto controlled by the Spring Boot Starter parent



15 And we want to add our Java version as well.



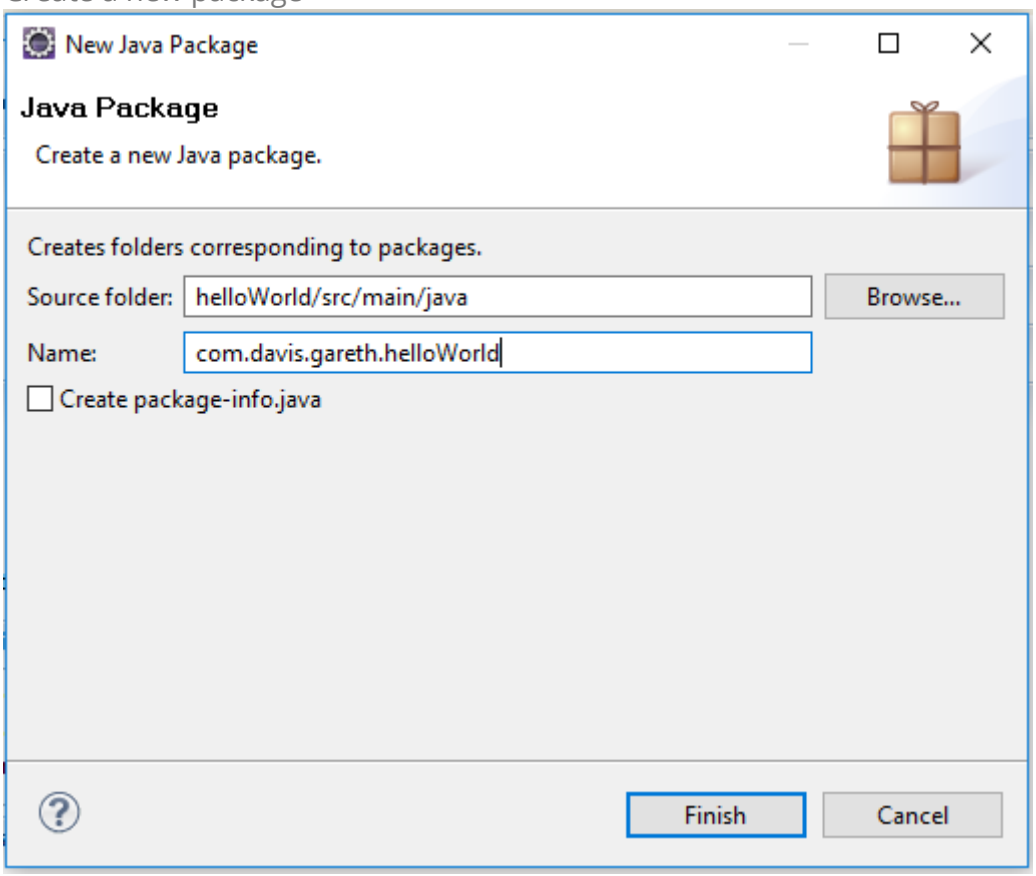
16 Once this is completed you should have an overview as follows



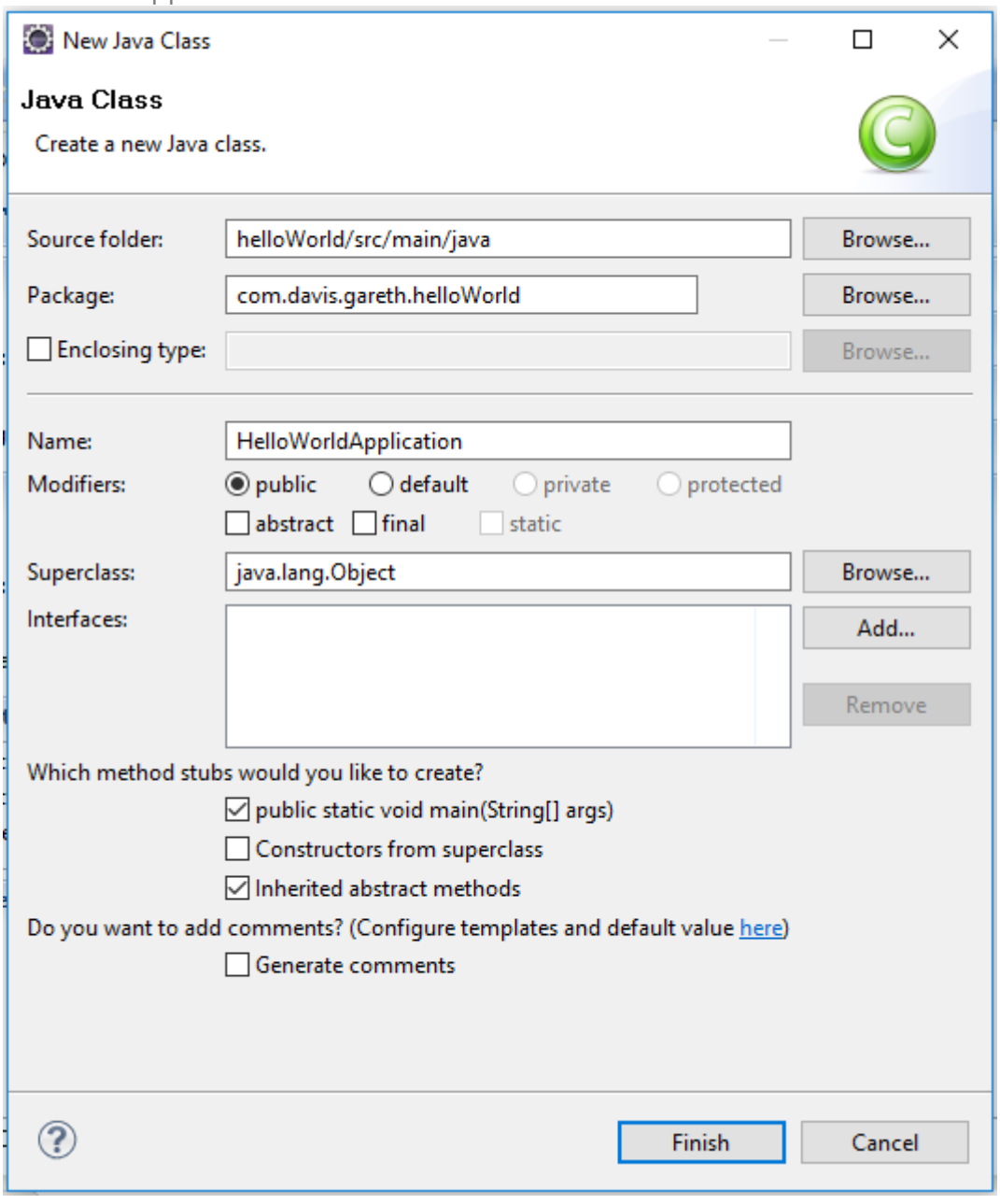
17 And you are finally ready to build the first app!

Creating the App

1 Create a new package



2 Create an Application class



Your application class needs a static void main as this will be the entrance point for your application.

3 Add the following code into the class

helloWorld/pom.xml | HelloWorldApplication.java | *HelloWorldController.java

```
package com.davis.gareth.helloWorld;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class HelloWorldApplication {


    public static void main(String[] args) {
        SpringApplication.run(HelloWorldApplication.class, args);
    }

}
```

4 Create a new class called HelloWorldController.java

5 Add the following code into the class

helloWorld/pom.xml | HelloWorldApplication.java | *HelloWorldController.java

```
package com.davis.gareth.helloWorld;

import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class HelloWorldController {
    @RequestMapping("/")
    public String index()
    {
        return "Hello World, this is Spring Boot";
    }

}
```

6 Now run HelloWorldApplication.java and if you go to localhost:8080 you should see the following message: